



Supplementary Fig. 2. Effect of autophagy in high glucose-induced H9c2 cardiac cells. (A) Dot plots display the stages of apoptotic death of H9c2 cardiac cells: Annexin-/PI- (Q3), viable cells; Annexin+/PI- (Q4), cells undergoing apoptosis; Annexin+/PI+ (Q2), cells that are in end-stage apoptosis or are already dead; Annexin-/PI+ (Q1), cells that are in necrosis. (a) H9c2 cardiac cells cultured in low glucose media; (b) H9c2 cardiac cells cultured in high glucose media; (c) H9c2 cardiac cells cultured in high glucose media containing 3-methyladenine (3-MA; 5 mM); (d) H9c2 cardiac cells cultured in high glucose media containing rapamycin (RAPA; 50 nM). (B) Quantitative analysis of apoptotic cells (Q2+Q4). All data are expressed as mean \pm standard deviation. FITC, fluorescein isothiocyanate. ^a $P < 0.05$ vs. H9c2 cardiac cells cultured in low glucose media, ^b $P < 0.05$ vs. H9c2 cardiac cells cultured in high glucose media, ^c $P < 0.05$ vs. H9c2 cardiac cells cultured in high glucose media containing 3-MA ($n = 5$ per group).